

5

What is claimed is:

10

1. A rinse-aid composition for a dishwashing machine comprising a bio-polypeptide wherein the rinse-aid composition prevents starch build-up and improves soil removal on articles being washed.

15

2. The rinse-aid composition according to claim 1 wherein the bio-polypeptide is gelatin, egg albumin, bovine serum albumin, casein, sodium caseinate or a mixture thereof.

20
25
30
35
40
45
50
55
60
65
70
75
80
85
90
95
100

3. The rinse-aid composition according to claim 1 wherein the bio-polypeptide is yeast protein, whey protein, vegetable protein, plant protein, animal glue, collagen, collagen hydrosylate, or a mixture thereof.

4. The rinse-aid composition according to claim 1 wherein the rinse-aid composition comprises from about 0.5% to about 30.0% by weight bio-polypeptide.

5. The rinse-aid composition according to claim 1 wherein the rinse-aid composition further comprises at least one additive selected from the group consisting of an alcohol, hydrotrope, preservative, acid, surfactant and water.

6. The rinse-aid composition according to claim 5 wherein the surfactant is a low-foaming nonionic surfactant.

30

7. The rinse-aid composition according to claim 1 wherein the rinse-aid composition results in a use solution having a pH from about 2.0 to about 10.0.

5

8. A method for preventing starch build-up on dishware comprising the steps of:
- (a) contacting dishware with a rinse-aid composition comprising a bio-polypeptide;
 - (b) removing the dishware from the rinse-aid composition.

10

9. The method according to claim 8 wherein the bio-polypeptide is gelatin, egg albumin, bovine serum albumin, casein, sodium caseinate or a mixture thereof.

15

10. The method according to claim 8 wherein the bio-polypeptide is yeast protein, whey protein, vegetable protein, plant protein, animal glue, collagen, collagen hydrosylate, or a mixture thereof.

20

11. The method according to claim 8 wherein the rinse-aid composition comprises from about 0.5% to about 30.0% by weight bio-polypeptide.

25

12. The method according to claim 8 wherein the rinse-aid composition further comprises at least one additive selected from the group consisting of an alcohol, hydrotrope, preservative, acid, surfactant and water.

30

13. The method according to claim 8 wherein the surfactant is a low-foaming nonionic surfactant.
14. The method according to claim 8 wherein the rinse-aid composition results in a use solution having a pH from about 2.0 to about 10.0.
15. The method according to claim 8 wherein the rinse-aid composition is at a temperature from about ambient to about 100°C.

5

16. A method for pre-treating non-soiled dishware to prevent starch soil build-up comprising the steps of contacting non-soiled dishware with a pre-coating composition comprising:

(a) a bio-polypeptide; and

10

(b) water.

17. The method according to claim 16 wherein the bio-polypeptide is gelatin, egg albumin, bovine serum albumin, casein, sodium caseinate or a mixture thereof.

15

18. The method according to claim 16 wherein the bio-polypeptide is yeast protein, whey protein, vegetable protein, plant protein, animal glue, collagen, collagen hydrosylate, or a mixture thereof.

20

19. The method according to claim 16 wherein the pre-coating composition has from about 0.50 to about 30.0% by weight bio-polypeptide.

25

20. The method according to claim 16 wherein the pre-coating composition is sprayed on to the dishware.